

ecowarmth - electrical storage heating with a difference efficient – effective – economical

comparison running costs for a typical living room of 22 m² (approx 12 ft x 18ft) with ceiling height 2.40m (8ft) - assumes reasonable insulation and double glazed windows

Night Storage Heating (Estimated usage with full power load)

Kw required:

3.4 Kw + 2 Kw extra electrical heating for evening (electric fire)

Tariff SWEB (EDF) Economy 7

Band B = 4.95p per kWh (incl VAT)

Band C = 11.50p per kWh (incl VAT)

NOTE:

Band A first 1000 kWh p.a @ 23.97p (incl. VAT) = £239.70

Calculation

3.4 Kw x 7 hrs x £0.0495/Kwh = **£1.18** per day

+

2 Kw x 2 hrs x £0.1150/Kwh = **£0.46** per day (equates to 4 hrs x 1 Kw)

Total = £1.64 per day

Ecowarmth Heating System

Kw required

2.0 Kw

Tariff: SWEB (EDF) Standard

Band B = 10.88p per kWh (incl VAT)

NOTE:

Band A – First 900 kWh p.a. x 18.38p (incl VAT) = £165.42 = £74.28 p.a. cheaper than Economy 7

Calculation

2.0 Kw x 24 hrs x £0.1088/Kwh x 20%* = £1.05 per day
(= 2.2p per Kw per hour)

* equates to 12 minutes of electricity usage for each hour of heat required

Difference in running costs £1.64 - £1.05 = £0.59p

This represents approx 36% saving compared to night storage heating + extra heating for evenings

NOTES

1. Tariffs used are EDF tariffs incl. VAT as of 15.02.2011
2. Calculations for Ecowarmth radiators are based on verified test results from Advantica Ltd – a UKAS accredited independent laboratory (report available from Ecowarmth). Night storage usage is estimated with full power load
3. **IMPORTANT** – Ecowarmth Radiators would normally be turned down slightly (to approx 15°C - 16°C) overnight and when out of the house at work. This would reduce the Ecowarmth costings still further.